Thermochimica Acta, 205 (1992) v–vii
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

(Abstracted / Indexed in: Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL / CNRS)

Publisher's Note ix

REGULAR PAPERS

Theoretical

Temperature mobility of isomeric cluster equilibria: maximizing the effects in the $(CO_2)_2^-(g)$ isomeric system
Z. Slanina (Mainz, Germany) 1

Thermodynamics and Calorimetry

Heat of solution of Desferal at 298.15 K
G. D'Andrea and F. Fantauzzi (L'Aquila, Italy) 5

Theory of a heat conduction calorimeter for scanning. Part 3. Stepwise change in the temperature of the surrounding thermal bath
S. Tanaka (Ibaraki, Japan) 11

Thermochemical study of aqueous micellar solutions of some amphiphilic quaternary ammonium chlorides at 313 K
B. Różycka-Roszak and E. Fisicaro (Parma, Italy) 19

A microcalorimetric study on human lung cancer A549 cells whose metabolism is inhibited by medicated liposome
C.-L. Xie, X.-Q. Wang, Z.-H. Song, S.-S. Qu, P. Wang and Z.-J. Quo (Wuhan, People's Republic of China) 33

Characterization of chemically modified chemithermomechanical pulp by thermal analysis. Part 1. Treatment with anhydrides
H.-P. Rensch and B. Riedl (Quebec, Canada) 39

Thermodynamic and conductometric studies on NaI solutions in water–*t*-butanol mixtures at 299.15 K
A. Bald, J. Gregorowicz, A. Szejgis and H. Piekarski (Łódź, Poland) 51

The standard enthalpies of formation of hydrogen cyanide and tricyanophosphine by ab initio molecular orbital calculation
P.J. Gardner (Surrey, UK) 65

The determination of the influence of heat treatment on the martensitic transformation in Cu–Zn–Al–Mn shape-memory alloy by calorimetry and acoustic emission techniques
F.J. Gil and J.M. Guilemany (Barcelona, Spain) 75

A microcalorimetric study of human erythrocytes in stirred buffer suspensions
P. Bäckman (Lund, Sweden) 87

Thermochemistry of some metallic amino acid complexes. Part 1. Copper(II) complexes
M.A.V. Ribeiro da Silva, M.D.M.C. Ribeiro da Silva, M.M.C. Bernardo and L.M.N.B.F. Santos (Porto, Portugal) 99

Thermochemistry of some metallic amino acid complexes. Part 2. Nickel(II) complexes
M.A.V. Ribeiro da Silva, M.D.M.C. Ribeiro da Silva, J.A.B.A. Tuna and L.M.N.B.F. Santos (Porto, Portugal) 115

Thermal Analysis

Thermal, structural and electrical studies of the chloro complexes of cobalt, nickel and copper with anthranilamide
J.R. Allan, B. McCloy, A.D. Paton (Edinburgh, UK), W.E. Smith (Glasgow, UK) and D.L. Gerrard (Middlesex, UK) 127
Study of the isothermal bulk polymerization of dimethyl phenyl methacrylates by differential scanning calorimetry
J.M. Filipović, D.M. Petrović-Djakov, Lj.P. Vrhovac and J.S. Veličković (Belgrade, Yugoslavia) 139
Mechanism and kinetics of the dehydration of magnesium oxalate dihydrate
J. Li, G. Zhang and W. Li (Henan, People's Republic of China) 145
Investigations of the thermodynamic properties of zinc chalcogenides
A. Nasar and M. Shamsuddin (Varanasi, India) 157
A system for studying gas–solid reaction kinetics in controlled atmospheres
L.J. Barbour, K. Achleitner and J.R. Greene (Rondebosch, South Africa) 171
Compatibility of mixtures of deoxyribonucleic acid with hydroxypropylcellulose in concentrated aqueous solutions
A. Kagemoto, T. Sumi and Y. Baba (Osaka, Japan) 179
A new approach to phase transformations in gibbsite: the role of the crystallinity
S.K. Mehta, A. Kalsotra (Jammu Tawi, India) and M. Murat (Villeurbanne, France) 191
A thermogravimetric study of flame-proofed wool
C. Popescu, M. Vasile, C. Oprea and E. Segal (Bucharest, Romania) 205
Kinetic study of the thermal decomposition of terfenadine
M.D. Santos-Buelga, M.J. Sanchez-Martin and M. Sanchez-Camazano (Salamanca, Spain) . . 213
The thermal decomposition of aluminum sulfate in different gas phase environments
Y. Pelovski, W. Pietkova, I. Gruncharov (Sofia, Bulgaria), B. Pacewska and J. Pysiak (Płock, Poland) 219
The thermal behaviour of ternary Co(II), Ni(II) and Cu(II) complexes with phthalate ion and 1,10-phenanthroline or 2,2′-dipyridylamine
D. Poleti and D.R. Stojaković (Belgrade, Yugoslavia) 225
Effect of β-nucleator content on the crystallization and melting behaviour of β-crystalline phase polypropylene
G. Shi and X. Zhang (Shanghai, People's Republic of China) 235
The effect of some additives on the Form II to Form I phase transformation in polybutene-1
X. Zhang, X. Zhang and G. Shi (Shanghai, People's Republic of China) 245
Thermal decomposition of some dimethylsulphoxide (DMSO) lanthanide complexes
J.R. Matos, Z.F. De Faria, I. Giolito, L.B. Zinner and G. Vicentini (São Paulo, Brazil) 253
Study by electrical conductivity, derivative thermogravimetry, infrared spectrometry and X-ray photoelectron spectroscopy of oxidation process of Fe_2MoO_4 in relation to the cationic distribution
B. Domenichini, B. Gillot (Dijon, France) and P. Tailhades (Toulouse, France) 259
Thermogravimetric studies of the metal complexes of polyacrylamide-supported amines: effect of the variables of macromolecular structure on thermal stability
B. Mathew, P.M. Madhusudanan and V.N.R. Pillai (Kottayam, India) 271

Other Topics

Investigations of thermal decomposition of aluminium sulphate by the emf method
Y. Pelovski, W. Pietkova, I. Gruncharov (Sofia, Bulgaria), B. Pacewska and J. Pysiak (Płock, Poland) 283
Thermodynamic properties of $NiCr_2O_4$–$NiFe_2O_4$ spinel solid solution
B.-H. Park and H. Suito (Sendai, Japan) 289
On the relative stabilities of dodecahedron-shaped and bowl-shaped structures of C_{20}
Z. Slanina and L. Adamowicz (Tucson, AZ, USA) 299
Representation of mutual solubility data over a wide temperature range using a modified Wilson equation
I. Nagata and K. Miyamoto (Kanazawa, Japan) 307

NOTES

Thermodynamics and Calorimetry

The high temperature heat capacity of dysprosium(III) bromide by differential scanning calorimetry
L.E. Elsam and S.R. Preston (Surrey, UK) 319

Thermal Analysis

Carboxylato complexes of zirconium(IV). Part 5. The thermal decomposition of difluorobis(heptafluorobutyrato)zirconium(IV)
G. Hall and H. Sutcliffe (Salford, UK) 323

Author Index 329

Subject Index 331